

Patent claims

1. Method for optimized color reproduction of a color original image by a color reproduction device,
 - 5 - in which an image-specific color association is created using the color association characterizing the color transfer properties of the color reproduction device (WG) and under consideration of the color space of the original image (BV),
 - whereby the color values of the color space of the original image
10 (BV) are determined,
 - whereby the color space of the color reproduction device (WG) is determined,
 - whereby the color spaces of the original image and of the color reproduction device are compared and it is established which color
15 range of the original image cannot be reproduced by the color reproduction device, and
 - whereby only one adaptation of the non-reproducible color range of the original image and of a boundary range bordering this non-reproducible color range to the color space of the color reproduction
20 device occurs via a color adaptation method, and then the image-specific color association is generated, and
 - in which the original image is output by the image reproduction device according to the image-specific color association.
- 25 2. Method according to claim 1, characterized in that,
for creation of the image-specific color association, an adaptation of the color space of the original image to that of the image reproduction device occurs when the color space of the original image does not lie within the color space of the color reproduction device.

3. Method according to claim 2, characterized in that an image-independent standard color association is loaded for the case that the color space of the color reproduction device covers the color space of the original image.
- 5 4. Method according to claim 3, characterized in that the standard color association comprises the color association characterizing the color transfer properties of the color reproduction device.
- 10 5. Method according to any of the preceding claims, characterized in that, in the determination of the color association of the color reproduction device, the color values necessary for this are smoothed.
- 15 6. Method according to any of the preceding claims, characterized in that the color association is stored in a table as a profile of the color reproduction.
7. Method according to any of the claims 1 through 5, in which the color association is stored as a function.
- 20 8. Method according to any of the preceding claims, in which the color reproduction device is a printer.
9. Method according to claim 8, characterized in that the printer is an electrophotographic printer.
- 25 10. Use of the method according to any of the preceding claims to create a proof in a proof device.